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	L6	14 and L5	1
	L5	(11 or 12 or 13) and ((client\$ or consumer\$ or user\$ or customer\$) near fail\$)	4
П	L4	(11 or 12 or 13) and (replica\$ with (database\$ or (data adj 1 base\$) or dbms) with (file or files or folder or folders) with (timestamp\$ or (time adj 1 stamp\$) or time-stamp\$))	1
	L3	romine-william-j.in.	2
	L2	kalderon-eyal.in.	4
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	L46	L45 and (second adj1 (database or (data adj1 base) or dbms))	4
	L45	144 and (first adj1 (database or (data adj1 base) or dbms))	4
	L44	L43 and (timestamp\$ or (time adj1 stamp\$) or time-stamp\$)	20
	L43	L42 and (replicat\$ near (file or files or folder or folders))	50
	L42	(136 or 137 or 138 or 139 or 140) and (replicat\$ near (database\$ or (data adj l base\$)))	433
****	L41	(136 or 137 or 138 or 139 or 140) and (replicat\$ with (file or files or folder or folders) with (timestamp\$ or (time adj 1 stamp\$) or time-stamp\$) with (request\$ or quer\$ or search\$ or inquir\$ or enquir\$ or question\$) with (database\$ or (data adj 1 base\$)))	. 0
	L40	709/203.ccls.	7088
	L39	7070/206.ccls.	0
	.L38	707/200-201.ccls.	3938
	L37	707/8.ccls.	1111
	L36	707/1-5.ccls.	15909
•	DB=	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR	
	L35	L34 and (client\$ or consumer\$ or user\$ or customer\$)	72
	L34	L33 and (timestamp\$) or (time adj1 stamp\$) or time-stamp\$)	·73
\Box	L33	L32 and (replicat\$ near (database\$ or (data adj1 base\$)))	159
, I	L32	L31 and (second adj1 (database or (data adj1 base) or dbms))	4871
\Box	L31	(first adj1 (database or (data adj1 base) or dbms))	6360
	L30	L29 and (timestamp\$ or (time adj1 stamp\$) or time-stamp\$)	76
	L29	L27 and (replicat\$ near (file or files or folder or folders))	136
	L28	(replicat\$ with (file or files or folder or folders) with (timestamp\$ or (time adj 1 stamp\$) or time-stamp\$) with (request\$ or quer\$ or search\$ or inquir\$ or question\$) with (database\$ or (data adj 1 base\$)))	1 .
	L27	(replicat\$ near (database\$ or (data adj1 base\$)))	1728
	L26	L24 and L25	1
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ņ	L24	L23 and ((search\$ or request\$ or quer\$ or question\$ or ask or asks or asking or asked or inquir\$ or enquir\$) with (access or accessing) with (file or files or folder or folders))	19

L23	(L21 or L22) and (replicat\$ near (database\$ or (data adj1 base\$)))	577		
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L21	replicat\$.ti.	6033		
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L20	(L18 or L19) and timestamp\$	22		
L19	L17 and (replicat\$ with (file or files or folder or folders))	107		
L18	L17 and (replicat\$ near (file or files or folder or folders))	53		
L17	replicat\$.ti.	929		
L16	L14 and timestamp\$	1		
L15	L1 and (replicat\$ near (file or files or folder or folders))	1		
L14	L1 and (replicat\$ with (file or files or folder or folders))	11		
L13	(replicat\$ near timestamp)	2		
L12	L1 and (replicat\$ near timestamp)	0		
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L10	(replicat\$ with timestamp)	29		
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L9	L1 and (replicat\$ with timestamp)	0		
L8	L1 and (replicat\$ near timestamp)	0 .		
L7	(replicat\$ with timestamp with (file or files or folder or folder\$))	11		
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Deciding when to forget in the Elephant file system

Douglas S. Santry, Michael J. Feeley, Norman C. Hutchinson, Alistair C. Veitch, Ross W. Carton, Jacob Ofir

December 1999 ACM SIGOPS Operating Systems Review, Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP

'99, Volume 33 Issue 5

Publisher: ACM Press

Full text available: pdf(1.61 MB)

Additional Information: full citation, abstract, references, citings, index

Modern file systems associate the deletion of a file with the immediate release of storage, and file writes with the irrevocable change of file contents. We argue that this behavior is a relic of the past, when disk storage was a scarce resource. Today, large cheap disks make it possible for the file system to protect valuable data from accidental delete or overwrite. This paper describes the design, implementation, and performance of the Elephant file system, which automatically retains all impo ...

2 Industrial sessions: beyond relational tables: Coordinating backup/recovery and data





consistency between database and file systems

Suparna Bhattacharya, C. Mohan, Karen W. Brannon, Inderpal Narang, Hui-I Hsiao, Mahadevan Subramanian

June 2002 Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02

Publisher: ACM Press

Full text available: pdf(1.44 MB)

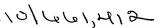
Additional Information: full citation, abstract, references, index terms

Managing a combined store consisting of database data and file data in a robust and consistent manner is a challenge for database systems and content management systems. In such a hybrid system, images, videos, engineering drawings, etc. are stored as files on a file server while meta-data referencing/indexing such files is created and stored in a relational database to take advantage of efficient search. In this paper we describe solutions for two potentially problematic aspects of such a data ...

Keywords: DB2, content management, database backup, database recovery, datalinks

3

File servers for network-based distributed systems





Liba Svobodova

December 1984 ACM Computing Surveys (CSUR), Volume 16 Issue 4

Publisher: ACM Press

Full text available: pdf(4,23 MB)

Additional Information: full citation, references, citings, index terms, review

Transaction-centric reconciliation in disconnected client-server databases October 2004 Mobile Networks and Applications, Volume 9 Issue 5



Publisher: Kluwer Academic Publishers

Full text available: pdf(205.54.K8) Additional Information: full cliation, abstract, references, index terms

As mobile computing devices become more and more common, mobile databases are becoming popular. An important feature of these database systems is their ability to allow optimistic replication of data by providing disconnected mobile devices the ability to perform local updates. The key problem to this approach is the reconciliation problem, i.e. the problem of serializing potentially conflicting updates from disconnected clients on all replicas of the database. Reconciliation of conflicting u ...

Keywords: databases, disconnected operation, reconcilation, serializability testing

ARIES/CSA: a method for database recovery in client-server architectures



C. Mohan, Inderpal Narang

May 1994 ACM SIGMOD Record, Proceedings of the 1994 ACM SIGMOD international conference on Management of data SIGMOD '94, Volume 23 Issue 2

Publisher: ACM Press

Full text available: pdf(1.33 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents an algorithm, called ARIES/CSA (Algorithm for Recovery and Isolation Exploiting Semantics for Client-Server Architectures), for performing recovery correctly in client-server (CS) architectures. In CS, the server manages the disk version of the database. The clients, after obtaining database pages from the server, cache them in their buffer pools. Clients perform their updates on the cached pages and produce log records. The log records are buffered loca ...

6 BASE: Using abstraction to improve fault tolerance



Miguel Castro, Rodrigo Rodrigues, Barbara Liskov

August 2003 ACM Transactions on Computer Systems (TOCS), Volume 21 Issue 3

Publisher: ACM Press

Full text available: pdf(438.18 KB) Additional Information: full citation, abstract, references, index terms

Software errors are a major cause of outages and they are increasingly exploited in malicious attacks. Byzantine fault tolerance allows replicated systems to mask some software errors but it is expensive to deploy. This paper describes a replication technique, BASE, which uses abstraction to reduce the cost of Byzantine fault tolerance and to improve its ability to mask software errors. BASE reduces cost because it enables reuse of off-the-shelf service implementations. It improves availability ...

Keywords: Byzantine fault tolerance, N-version programming, asynchronous systems, proactive recovery, state machine replication

7 Persistent memory: a storage architecture for object-oriented database systems Satish M. Thatte



September 1986 Proceedings on the 1986 international workshop on Object-oriented database systems

Publisher: IEEE Computer Society Press

Full text available: pdf(1.13 MB)

Additional Information: full citation, abstract, references, citings, index terms

Object-oriented databases are needed to support database objects with a wide variety of types and structures. A persistent memory system provides a storage architecture for long-term, reliable retention of objects with rich types and structures in the virtual memory itself. It is based on a uniform memory abstraction, which eliminates the distinction between transient objects (data structures) and persistent objects (files and databases), and therefore, allows the same set of powerful and f ...

Reliable commit and optimistic concurrency control for dynamically reconfigurable



distributed databases Sue M. Zajac, Fred J. Maryanski

December 1986 Proceedings of the 1986 ACM SIGSMALL/PC symposium on Small systems

Publisher: ACM Press

Full text available: pdf(720.47 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper addresses the problem of maintaining high availability in a dynamically reconfigurable distributed database system. A dynamically reconfigurable distributed database system is one in which clients and/or servers may attach to or detach from the system at will. Reliable transaction management and commit protocols which handle both these absences and unexpected failures are presented.

BASE: using abstraction to improve fault tolerance



Rodrigo Rodrigues, Miguel Castro, Barbara Liskov

October 2001 ACM SIGOPS Operating Systems Review, Proceedings of the eighteenth ACM symposium on Operating systems principles SOSP '01, Volume 35 Issue

Publisher: ACM Press

Full text available: pdf(1.47 MB)

Additional Information: full citation, abstract, references, citings, index

Software errors are a major cause of outages and they are increasingly exploited in malicious attacks. Byzantine fault tolerance allows replicated systems to mask some software errors but it is expensive to deploy. This paper describes a replication technique, BASE, which uses abstraction to reduce the cost of Byzantine fault tolerance and to improve its ability to mask software errors. BASE reduces cost because it enables reuse of off-the-shelf service implementations. It improves availability ...

10 Client-server computing in mobile environments Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid



June 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 2

Publisher: ACM Press

Full text available: pdf(233.31 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

11 FAB: building distributed enterprise disk arrays from commodity components



Yasushi Saito, Svend Frølund, Alistair Veitch, Arif Merchant, Susan Spence

October 2004 ACM SIGARCH Computer Architecture News, ACM SIGOPS Operating Systems Review , ACM SIGPLAN Notices , Proceedings of the 11th international conference on Architectural support for programming languages and operating systems ASPLOS-XI, Volume 32, 38, 39 Issue 5, 5, 11

Publisher: ACM Press

Full text available: Papdf(671.67 KB) Additional Information: full citation, abstract, references, index terms

This paper describes the design, implementation, and evaluation of a Federated Array of Bricks (FAB), a distributed disk array that provides the reliability of traditional enterprise arrays with lower cost and better scalability. FAB is built from a collection of bricks, small storage appliances containing commodity disks, CPU, NVRAM, and network interface cards. FAB deploys a new majority-voting-based algorithm to replicate or erasure-code logical blocks across bricks and a reconfigurati ...

Keywords: consensus, disk array, erasure coding, replication, storage, voting

12 Decentralized storage systems: Taming aggressive replication in the Pangaea wide-



area file system

Yasushi Saito, Christos Karamanolis, Magnus Karlsson, Mallik Mahalingam December 2002 ACM SIGOPS Operating Systems Review, Volume 36 Issue SI

Publisher: ACM Press

Full text available: pdf(1.93 MB) Additional Information: full citation, abstract, references

Pangaea is a wide-area file system that supports data sharing among a community of widely distributed users. It is built on a symmetrically decentralized infrastructure that consists of commodity computers provided by the end users. Computers act autonomously to serve data to their local users. When possible, they exchange data with nearby peers to improve the system's overall performance, availability, and network economy. This approach is realized by aggressively creating a replica of a file w ...

13 Distributed file systems: concepts and examples



Eliezer Levy, Abraham Silberschatz

December 1990 ACM Computing Surveys (CSUR), Volume 22 Issue 4

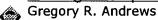
Publisher: ACM Press

Full text available: pdf(5.33 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The purpose of a distributed file system (DFS) is to allow users of physically distributed computers to share data and storage resources by using a common file system. A typical configuration for a DFS is a collection of workstations and mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system of each of the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralization of both data and con ...

14 Paradigms for process interaction in distributed programs



March 1991 ACM Computing Surveys (CSUR), Volume 23 Issue 1

Publisher: ACM Press



Full text available: pdf(3.77 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms review

Distributed computations are concurrent programs in which processes communicate by message passing. Such programs typically execute on network architectures such as networks of workstations or distributed memory parallel machines (i.e., multicomputers such as hypercubes). Several paradigms—examples or models—for process interaction in distributed computations are described. These include networks of filters, clients, and servers, heartbeat algorithms, probe/echo algorithms, broa ...

Keywords: clients and servers, distributed and parallel algorithms, distributed programming, distributed programming methods, heartbeat algorithms, networks of filters, patterns for interprocess communication, probe/echo algorithms, replicated servers, token-passing algorithms

15 Log files: an extended file service exploiting write-once storage



R. Finlayson, D. Cheriton

November 1987 ACM SIGOPS Operating Systems Review , Proceedings of the eleventh ACM Symposium on Operating systems principles SOSP '87, Volume 21

Issue 5

Publisher: ACM Press

Full text available: pdf(1.07 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

A log service provides efficient storage and retrieval of data that is written sequentially (append-only) and not subsequently modified. Application programs and subsystems use log services for recovery, to record security audit trails, and for performance monitoring. Ideally, a log service should accommodate very large, long-lived logs, and provide efficient retrieval and low space overhead. In this paper, we describe the design and implementation of the Clio log service. Clio pr ...

16 Cheap recovery: a key to self-managing state



Andrew C. Huang, Armando Fox

February 2005 ACM Transactions on Storage (TOS), Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, index terms

Cluster hash tables (CHTs) are key components of many large-scale Internet services due to their highly-scalable performance and the prevalence of the type of data they store. Another advantage of CHTs is that they can be designed to be as self-managing as a cluster of stateless servers. One key to achieving this extreme manageability is reboot-based recovery that is predictably fast and has modest impact on system performance and availability. This "cheap" recovery mechanism simplifies manageme ...

Keywords: Cluster hash table, manageability, quourum replication, storage systems design

17 A quorum-consensus replication method for abstract data types



Maurice Herlihy

February 1986 ACM Transactions on Computer Systems (TOCS), Volume 4 Issue 1

Publisher: ACM Press

Full text available: pdf(1.66 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>ierms</u>, <u>review</u>

Replication can enhance the availability of data in distributed systems. This paper introduces a new method for managing replicated data. Unlike many methods that

support replication only for uninterpreted files, this method systematically exploits typespecific properties of objects such as sets, queues, or directories to provide more effective replication. Each operation requires the cooperation of a certain number of sites for its successful completion. A quorum for an operation is any s ...

18 Replication in the harp file system



Barbara Liskov, Sanjay Ghemawat, Robert Gruber, Paul Johnson, Liuba Shrira September 1991 ACM SIGOPS Operating Systems Review, Proceedings of the thirteenth ACM symposium on Operating systems principles SOSP '91, Volume 25 Issue 5

Publisher: ACM Press

Full text available: pdf(1.60 M3)

Additional Information: full citation, abstract, references, citings, index

This paper describes the design and implementation of the Harp file system. Harp is a replicated Unix file system accessible via the VFS interface. It provides highly available and reliable storage for files and guarantees that file operations are executed atomically in spite of concurrency and failures. It uses a novel variation of the primary copy replication technique that provides good performance because it allows us to trade disk accesses for network communication. Harp is intended to be u ...

19 Manageability, availability, and performance in porcupine: a highly scalable, cluster-



based mail service

Yasushi Saito, Brian N. Bershad, Henry M. Levy

August 2000 ACM Transactions on Computer Systems (TOCS), Volume 18 Issue 3

Publisher: ACM Press

Full text available: pdf(2.52 M3) Additional Information: full citation, abstract, references, index terms

This paper describes the motivation, design and performance of Porcupine, a scalable mail server. The goal of Porcupine is to provide a highly available and scalable electronic mail service using a large cluster of commodity PCs. We designed Porcupine to be easy to manage by emphasizing dynamic load balancing, automatic configuration, and graceful degradation in the presence of failures. Key to the system's manageability, availability, and performance is that sessions, data, and underlying ...

Keywords: cluster, distributed systems, email, group membership protocol, load balancing, replication

20 Astrolabe: A robust and scalable technology for distributed system monitoring,





management, and data mining

Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

May 2003 ACM Transactions on Computer Systems (TOCS), Volume 21 Issue 2

Publisher: ACM Press

Full text available: pdf(341.62 KB)

Additional Information: full citation, abstract, references, citings, index terms

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

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H Stockinger, A Samar, K Holtman, B Allcock, I ... - Cluster Computing, 2002 - Springer ... such as file size and modify time-stamps) and the ... LDAP protocol to interface with the database backend. We do not currently distribute or replicate the replica ... Cited by 126 - Related Articles - Web Search - BL Direct

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B Liskov, S Ghemawat, R Gruber, P Johnson, L ... - Proceedings of the thirteenth ACM symposium on Operating ..., 1991 - portal.acm.org

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Ÿ Saito, C Karamanolis, M Karlsson, M Mahalingam - ACM SIGOPS Operating Systems Review, 2002 - portal.acm.org

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D Barbará, T Imieliński - Proceedings of the 1994 ACM SIGMOD international conference ..., 1994 - portal.acm.org

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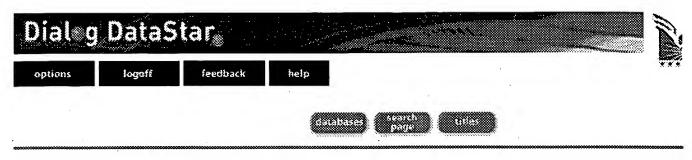
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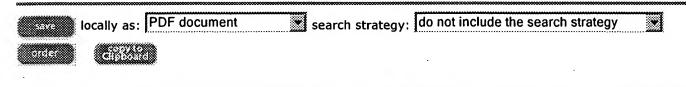
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Title

Handling of mutual conflicts in distributed databases using timestamps.

Source

Computer Journal, {Comput-J-UK}, 1998, vol. 41, no. 6, p. 376-85, 22 refs, CODEN: CMPJA6, ISSN: 0010-4620.

Publisher: Oxford University Press for British Comput. Soc, UK.

Author(s)

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Abstract

In distributed **database** systems, it is desirable to allow read and write accesses to occur independently on **replicated** copies of **database files** in case of network partitions to increase availability. However, the system should detect mutual conflicts among the copies of the **database files** when sites from different partitions merge to form one partition. We present a **timestamp-based** algorithm for the detection of both write-write and read-write conflicts for a single **file** in distributed **databases** when sites from different partitions merge. Our algorithm allows read and write operations to occur in different network partitions simultaneously. When the sites from two different partitions merge, the algorithm detects and resolves both read-write and write-write conflicts with the help of stored **timestamps** using some additional information. Once the conflicts have been detected, we propose some reconciliation steps for the resolution of conflicts to bring the **file** into some consistent state. Our algorithm does not take into account the semantics of the transactions while detecting and resolving conflicts. Our algorithm will be useful in real-time systems where timeliness of operations is more important than response time (delayed commit).

Descriptors

CONCURRENCY-CONTROL; DATABASE-THEORY; DISTRIBUTED-DATABASES; REAL-TIME-SYSTEMS.

Classification codes

C6160B Distributed-databases*; C4250 Database-theory.

Keywords

mutual-conflict-handling; **distributed-databases**; read-accesses; write-accesses; **replicated-database-file-copies**; network-partitions; availability; **timestamp-based-algorithm**; write-write-conflict-detection; read-write-conflict-detection; **stored-timestamps**; reconciliation-steps; real-time-systems; operation-timeliness.

Treatment codes

T Theoretical-or-mathematical.

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Publication type

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Publication year

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Publication date

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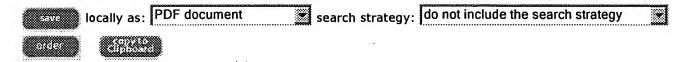
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